

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017603.D
 Acq On : 25 Jul 2020 17:54
 Operator : JC/SP
 Sample : L3383-27
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 77 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:16:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	426201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	670996	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	779222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	371620	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	300509	54.89	ug/l	0.00
Spiked Amount			Recovery	=	109.78%	
35) Dibromofluoromethane	5.47	113	248897	55.46	ug/l	0.00
Spiked Amount			Recovery	=	110.92%	
50) Toluene-d8	8.70	98	832810	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	11.12	95	358813	55.38	ug/l	0.00
Spiked Amount			Recovery	=	110.76%	

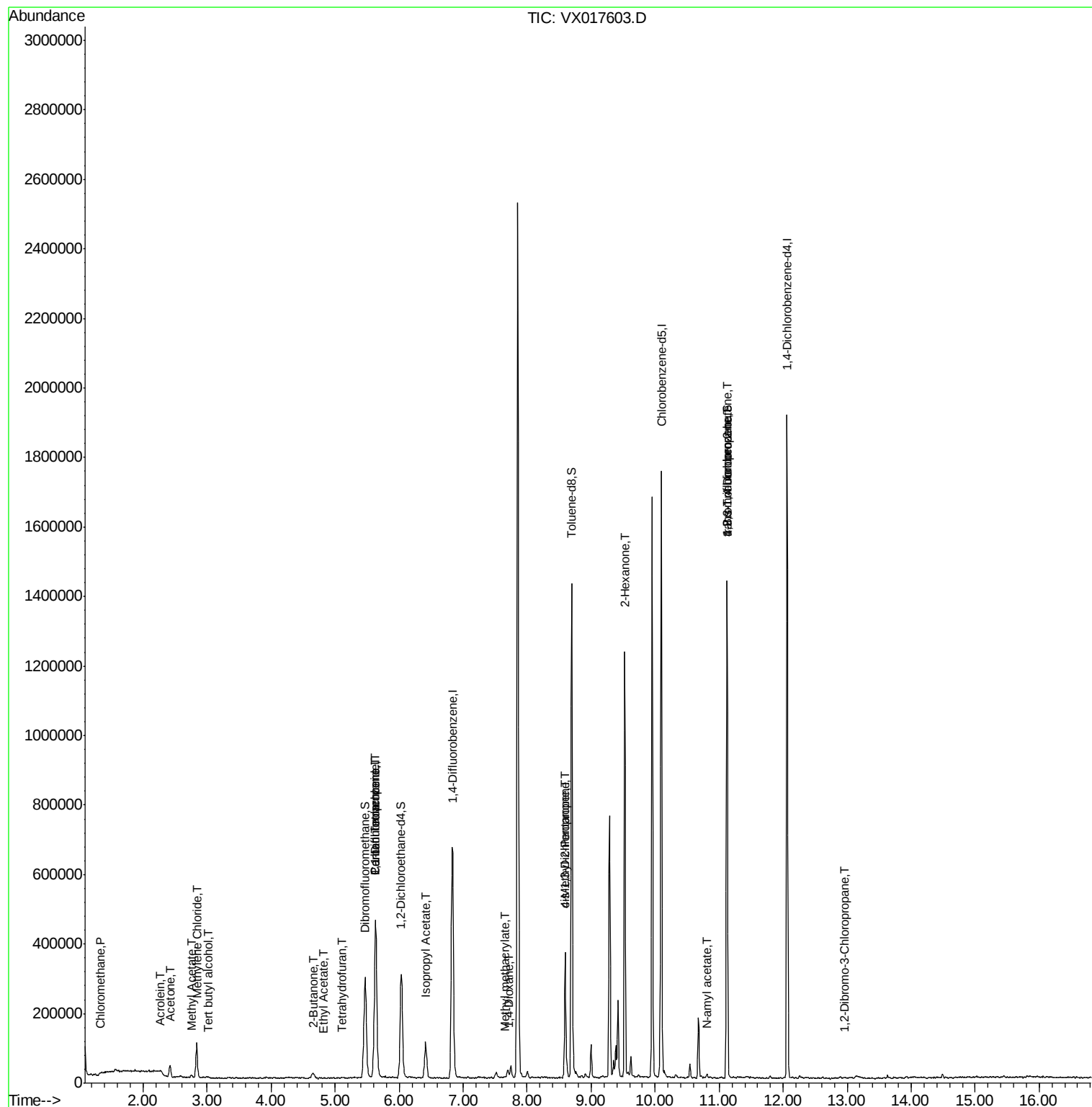
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	201	Below Cal	#	42
3) Chloromethane	1.32	50	666	0.492	ug/l #	51
5) Bromomethane	1.63	94	515	Below Cal	#	22
6) Chloroethane	1.71	64	204	Below Cal	#	70
8) Diethyl Ether	2.17	74	1736	Below Cal		97
11) Tert butyl alcohol	3.01	59	3122	2.706	ug/l #	93
13) Acrolein	2.26	56	892	5.144	ug/l #	57
16) Acetone	2.42	43	35074	14.556	ug/l	94
18) Methyl Acetate	2.75	43	8383	1.477	ug/l	92
20) Methylene Chloride	2.84	84	42869	8.377	ug/l	99
25) 2-Butanone	4.65	43	7217	2.108	ug/l #	84
29) Tetrahydrofuran	5.10	42	975	0.460	ug/l #	82
36) 1,1-Dichloropropene	5.63	75	32593	5.065	ug/l #	52
37) Ethyl Acetate	4.81	43	1885	0.268	ug/l #	77
38) Carbon Tetrachloride	5.64	117	43648	5.585	ug/l #	17
43) Isopropyl Acetate	6.42	43	139456	12.004	ug/l	99
48) Methyl methacrylate	7.65	41	8386	1.456	ug/l #	19
49) 1,4-Dioxane	7.71	88	281	2.545	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	133945	19.323	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	54441	6.556	ug/l #	61
59) 2-Hexanone	9.52	43	140575	26.935	ug/l #	52
74) N-amyl acetate	10.81	43	6476	0.572	ug/l #	56
76) 1,2,3-Trichloropropane	11.12	75	186768	24.432	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	186768	61.563	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.97	75	48	2.597	ug/l #	17

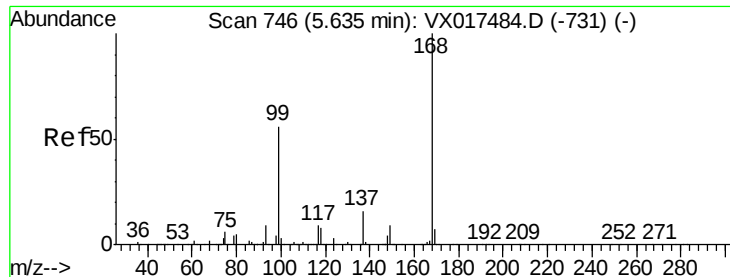
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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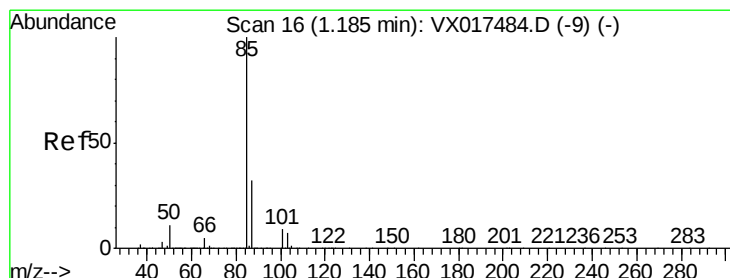
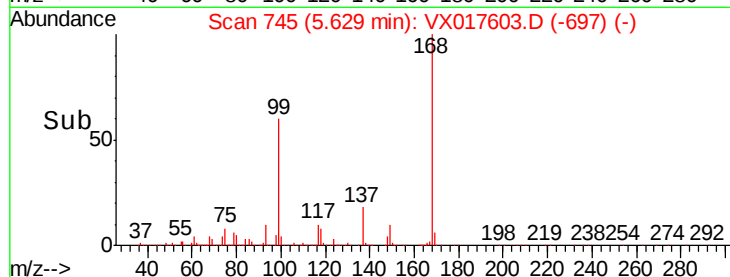
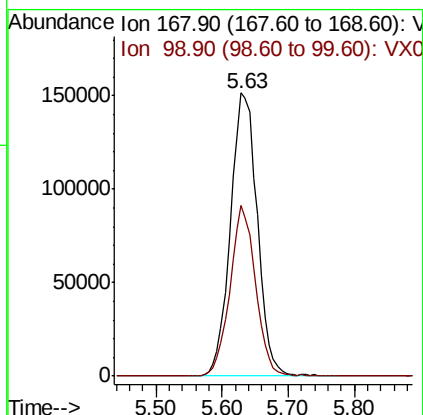
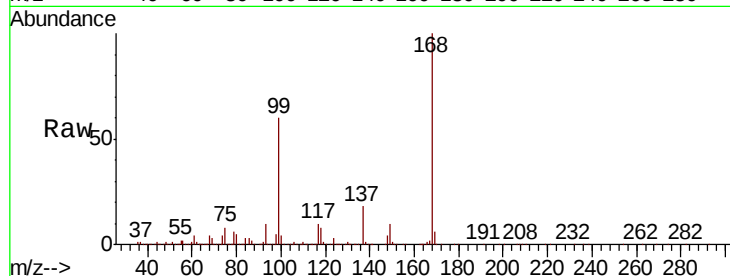


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VX017603.D
 Acq: 25 Jul 2020 17:54

Instrument :
 MSVOA_X
 ClientSampled :

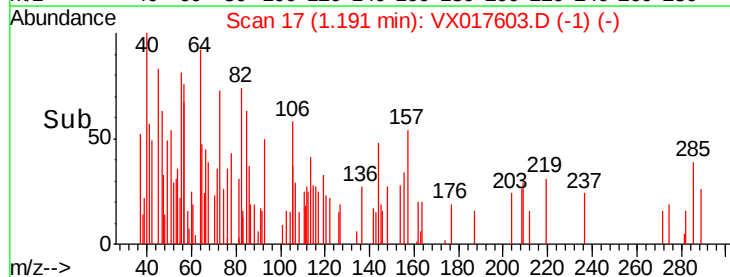
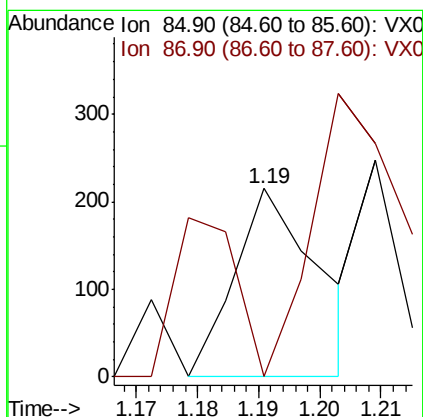
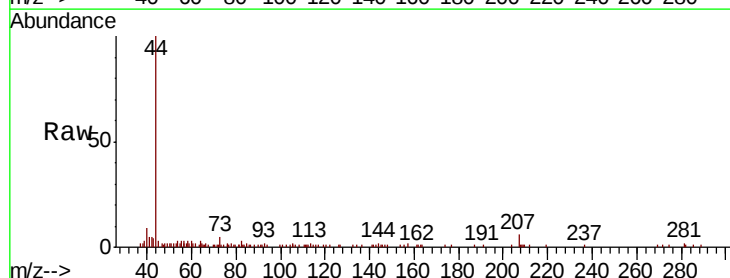
Tot Ion:168 Resp: 426201
 Ion Ratio Lower Upper
 168 100
 99 60.0 43.4 65.2

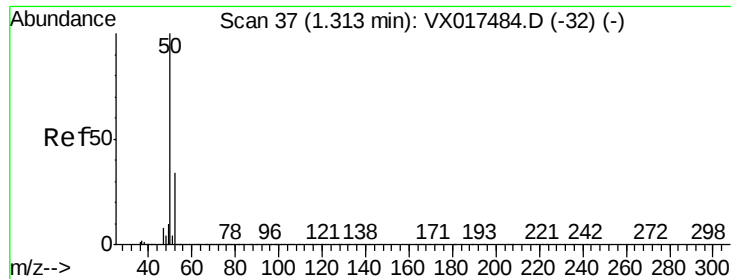


#2

Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.19 min Scan# 17
 Delta R.T. 0.01 min
 Lab File: VX017603.D
 Acq: 25 Jul 2020 17:54

Tgt Ion: 85 Resp: 201
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.1 48.3#





#3

Chloromethane

Concen: 0.492 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

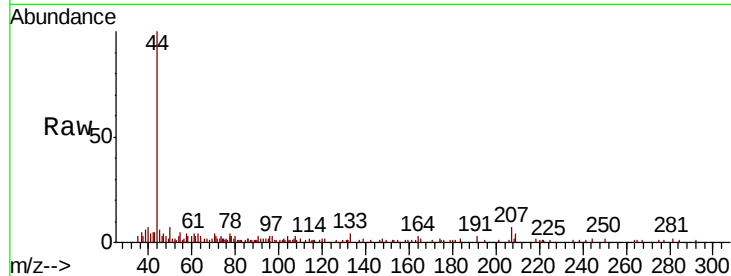
ClientSampleId :

Tot Ion: 50 Resp: 666

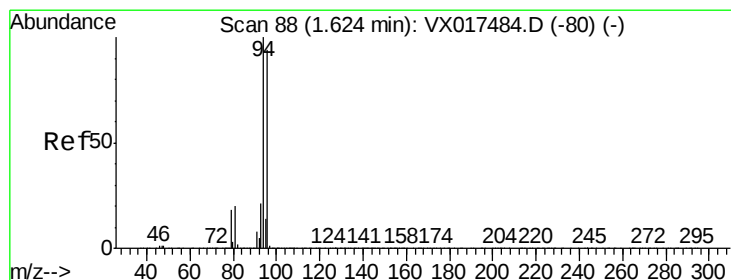
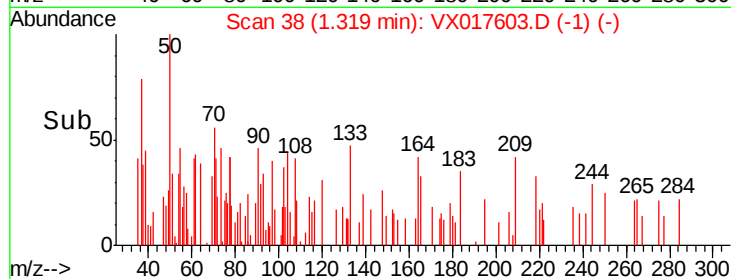
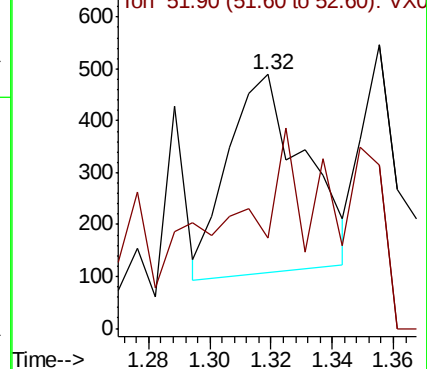
Ion Ratio Lower Upper

50 100

52 5.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017603.D

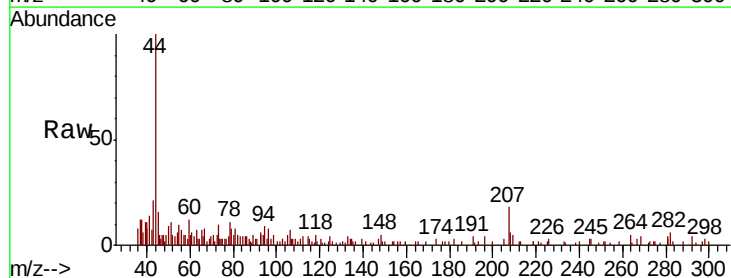
Acq: 25 Jul 2020 17:54

Tgt Ion: 94 Resp: 515

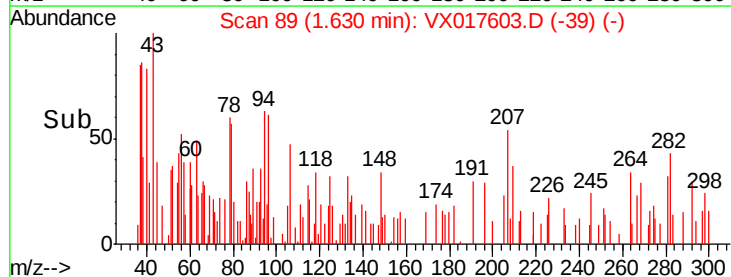
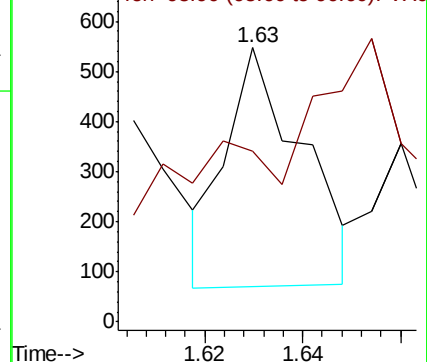
Ion Ratio Lower Upper

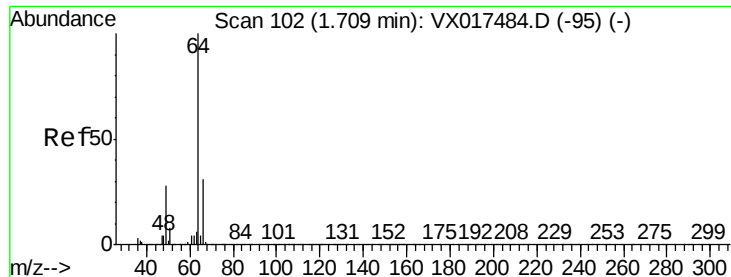
94 100

96 17.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

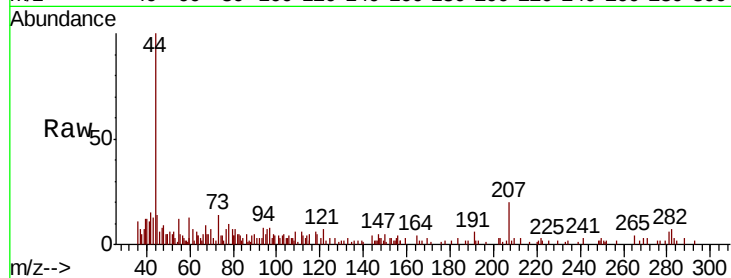
ClientSampled :

Tot Ion: 64 Resp: 204

Ion Ratio Lower Upper

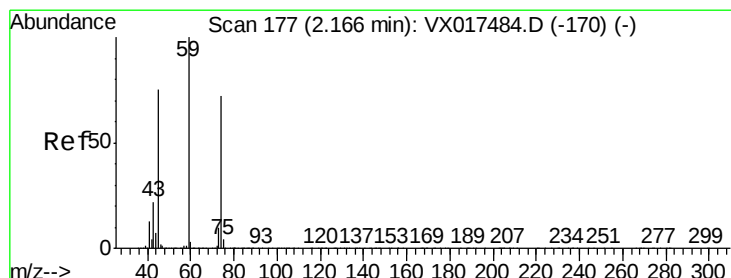
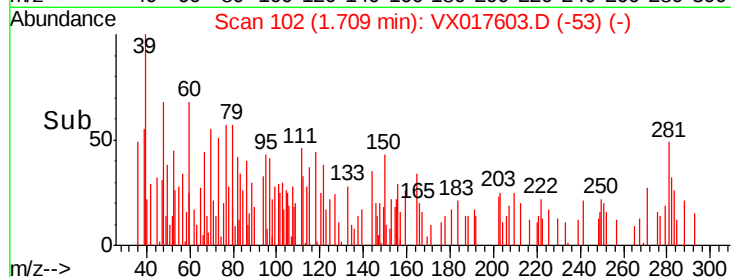
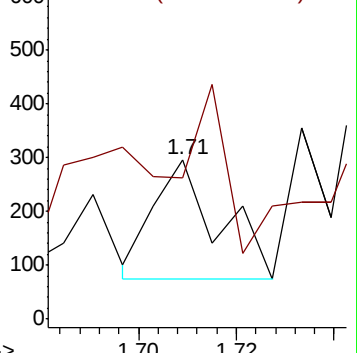
64 100

66 14.4 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017603.D

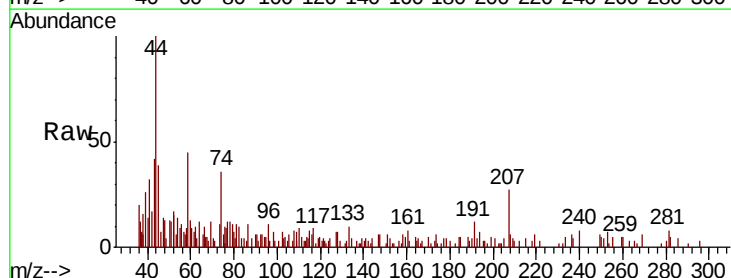
Acq: 25 Jul 2020 17:54

Tgt Ion: 74 Resp: 1736

Ion Ratio Lower Upper

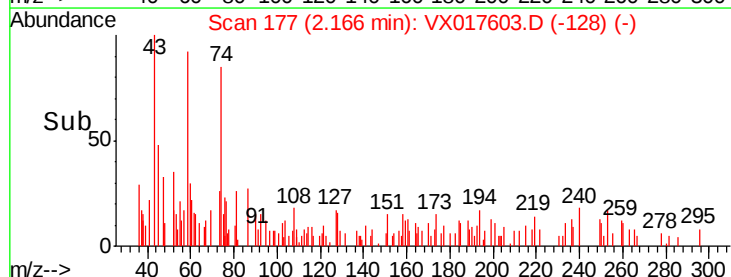
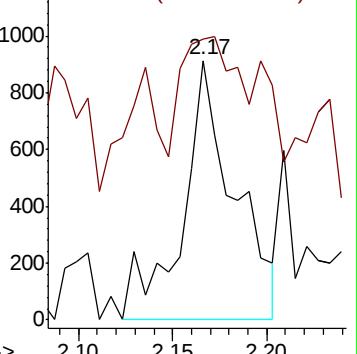
74 100

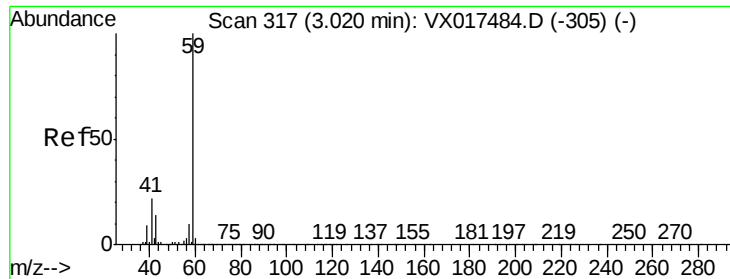
45 98.3 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



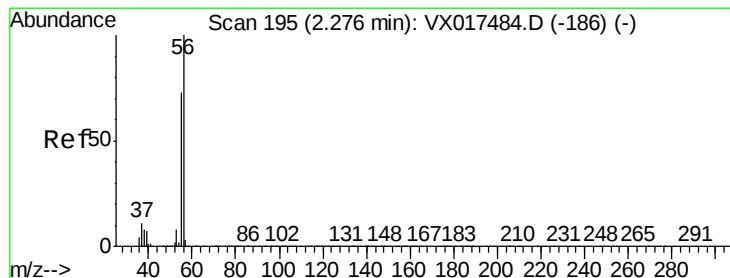
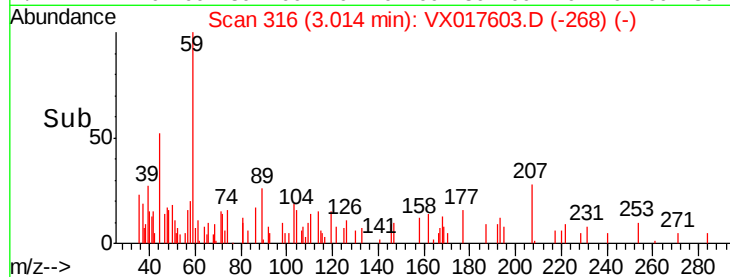
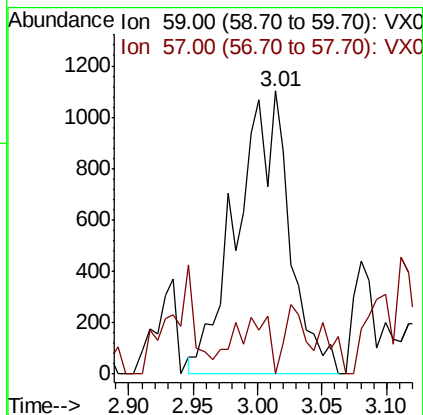
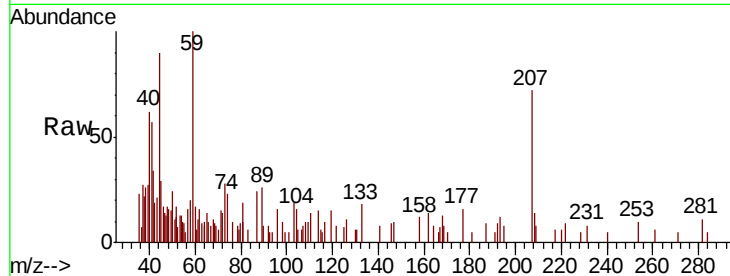


#11

Tert butyl alcohol
Concen: 2.706 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

Instrument :
MSVOA_X
ClientSampleId :

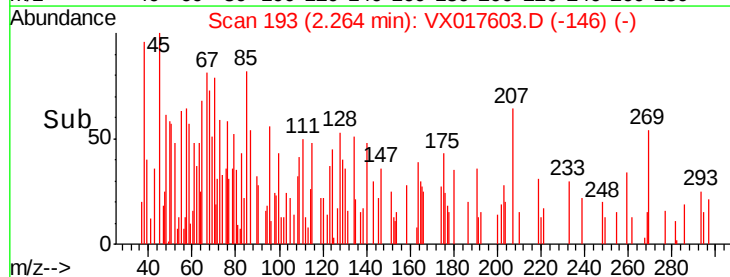
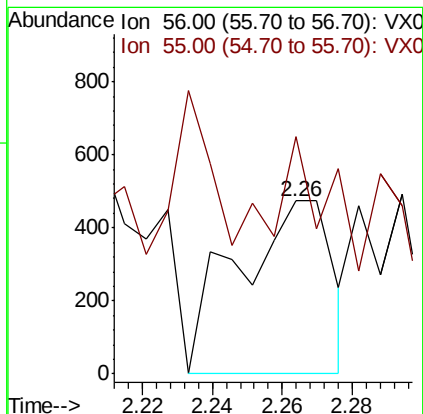
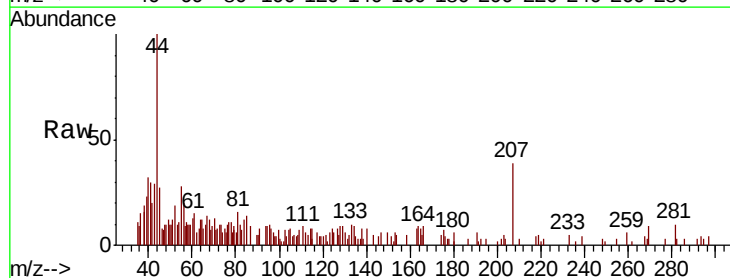
Tot Ion: 59 Resp: 3122
Ion Ratio Lower Upper
59 100
57 13.2 8.6 12.8#

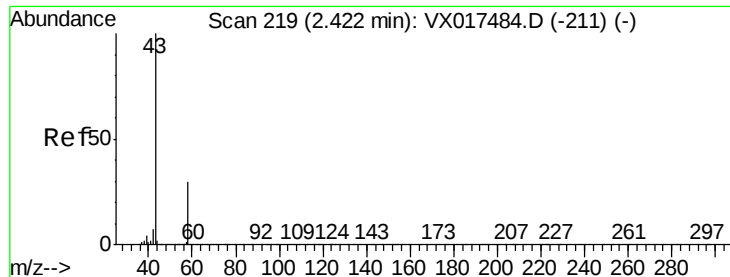


#13

Acrolein
Concen: 5.144 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

Tgt Ion: 56 Resp: 892
Ion Ratio Lower Upper
56 100
55 35.9 57.4 86.2#





#16

Acetone

Concen: 14.556 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

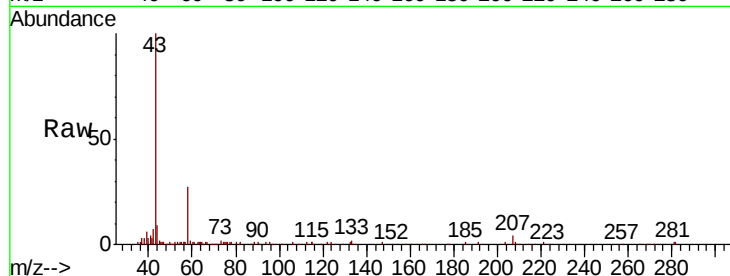
ClientSampleId :

Tot Ion: 43 Resp: 35074

Ion Ratio Lower Upper

43 100

58 27.1 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

25000

20000

15000

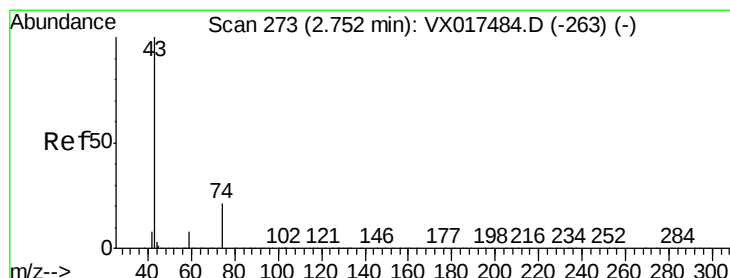
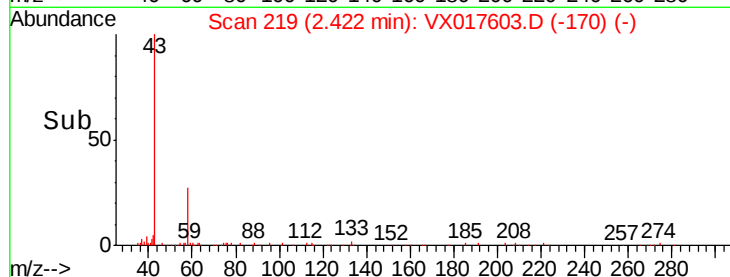
10000

5000

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 1.477 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017603.D

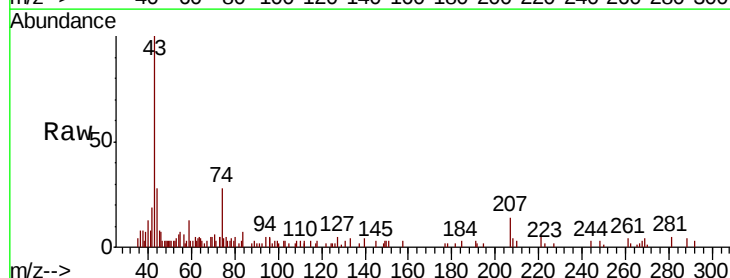
Acq: 25 Jul 2020 17:54

Tgt Ion: 43 Resp: 8383

Ion Ratio Lower Upper

43 100

74 25.6 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

4000

3000

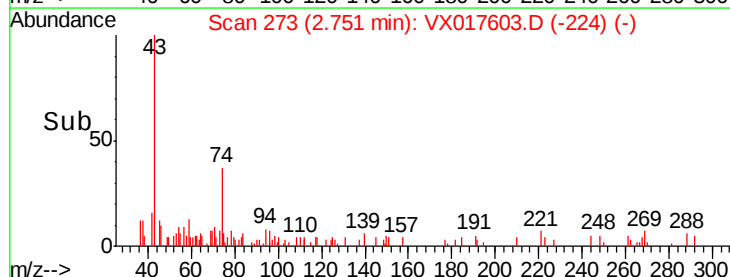
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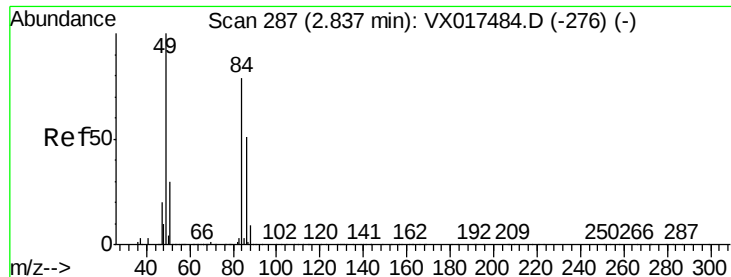
1000

0

2.70 2.75 2.80

Time-->

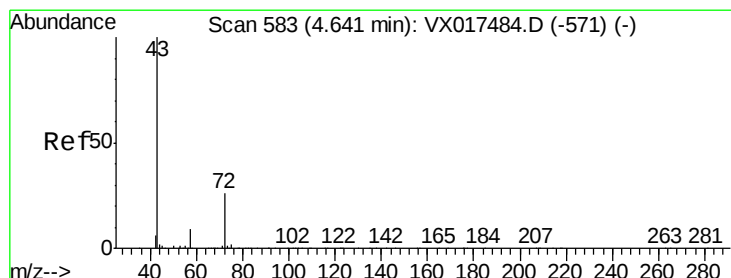
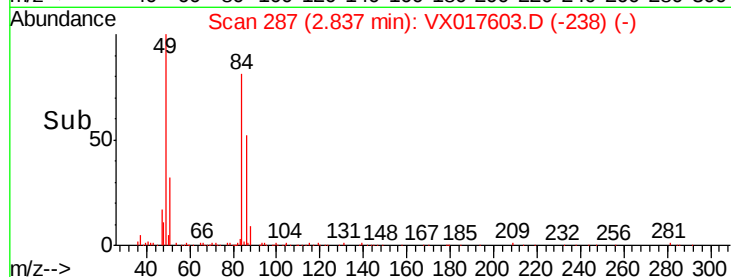
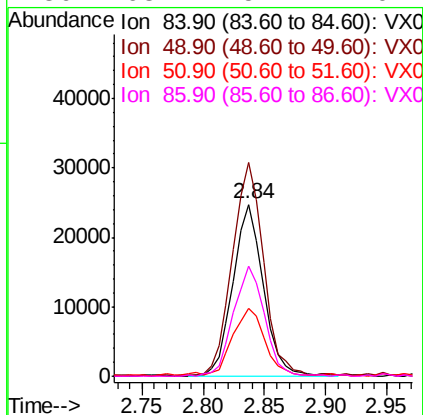
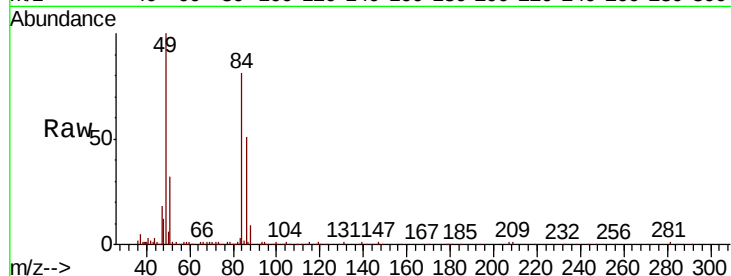




#20
Methvlene Chloride
Concen: 8.377 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

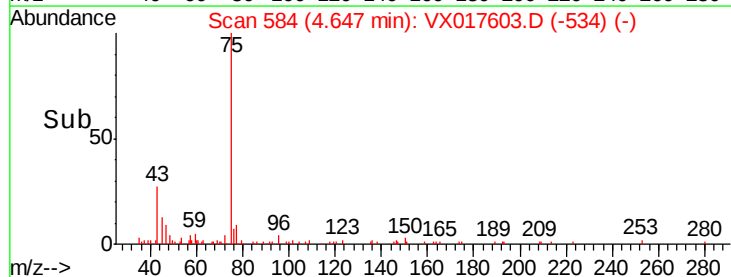
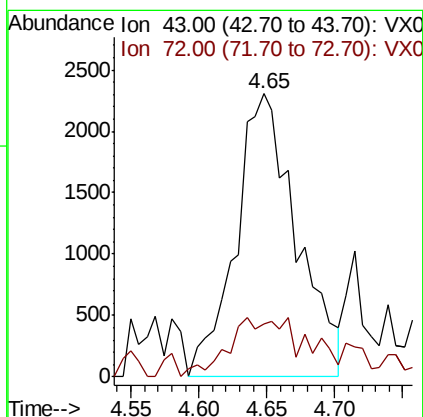
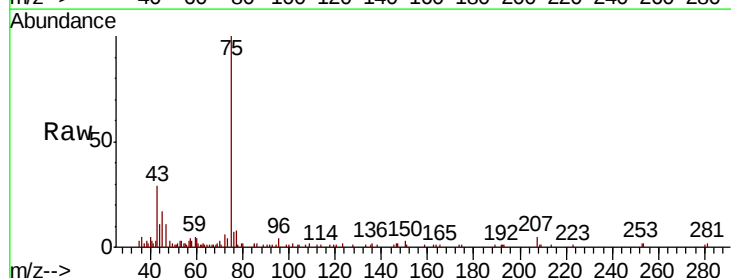
Instrument :
MSVOA_X
ClientSampleId :

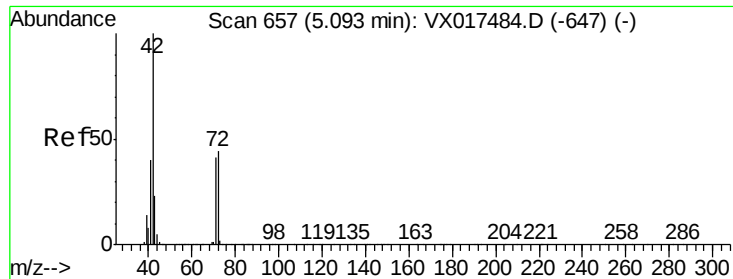
Tot Ion:	84	Resp:	42869
Ion	Ratio	Lower	Upper
84	100		
49	123.6	100.3	150.5
51	38.2	30.5	45.7
86	63.4	51.1	76.7



#25
2-Butanone
Concen: 2.108 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

Tgt Ion:	43	Resp:	7217
Ion	Ratio	Lower	Upper
43	100		
72	15.7	19.0	28.4#

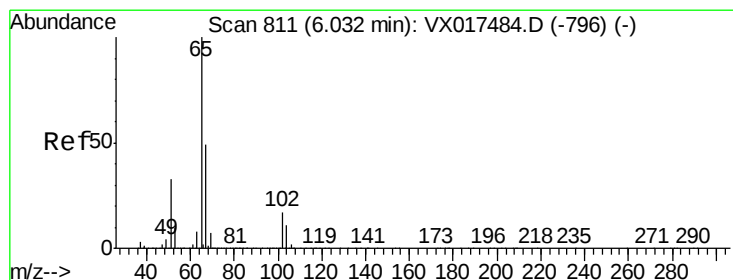
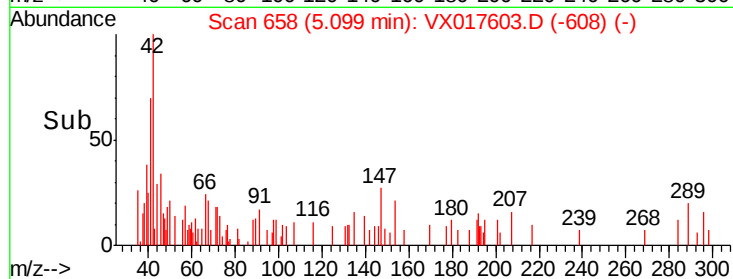
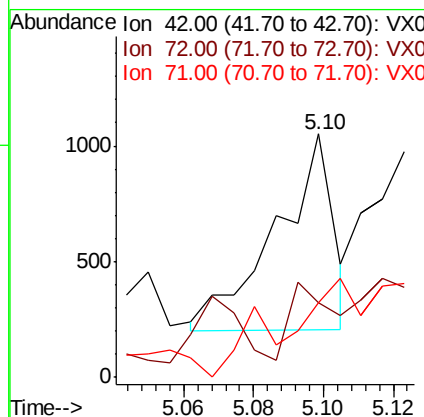
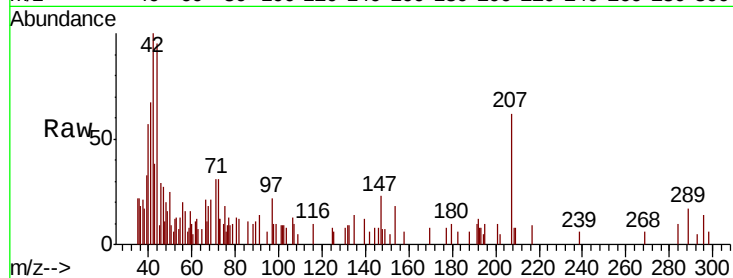




#29
Tetrahydrofuran
Concen: 0.460 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

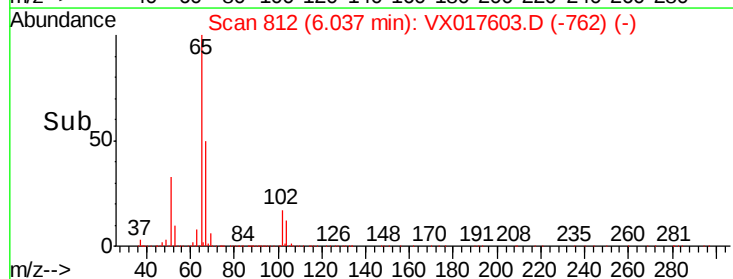
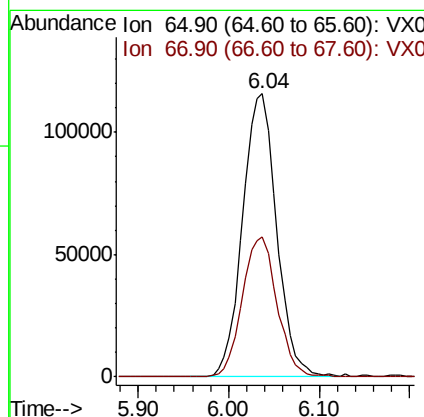
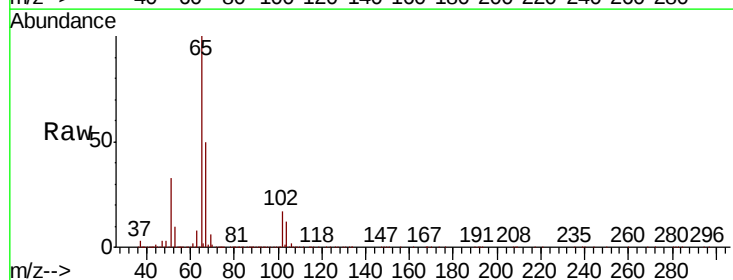
Instrument :
MSVOA_X
ClientSampleId :

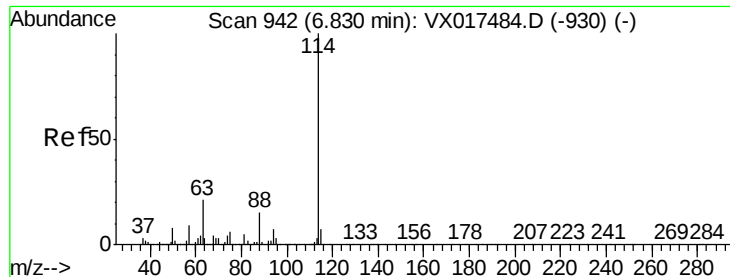
Tot Ion: 42 Resp: 975
Ion Ratio Lower Upper
42 100
72 37.5 35.5 53.3
71 25.3 33.0 49.4#



#33
1,2-Dichloroethane-d4
Concen: 54.890 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

Tgt Ion: 65 Resp: 300509
Ion Ratio Lower Upper
65 100
67 50.6 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

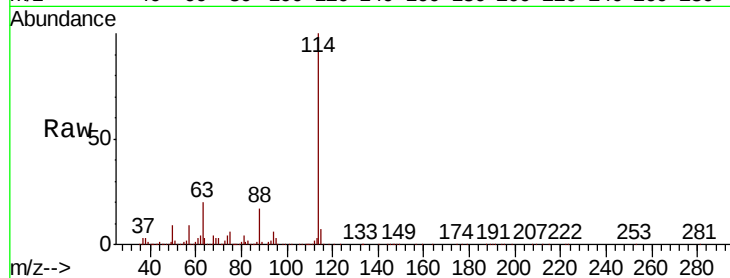
Tot Ion:114 Resp: 670996

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.6

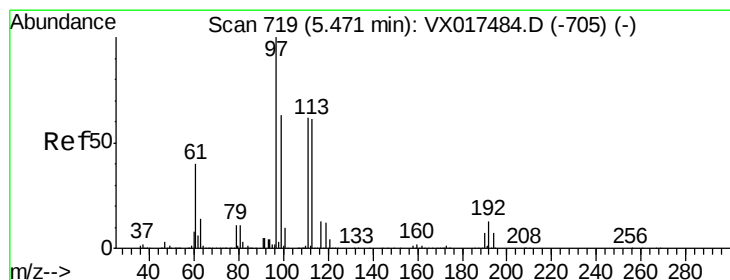
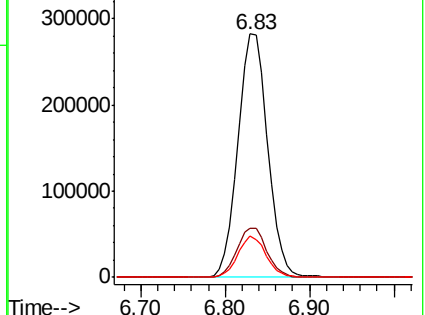
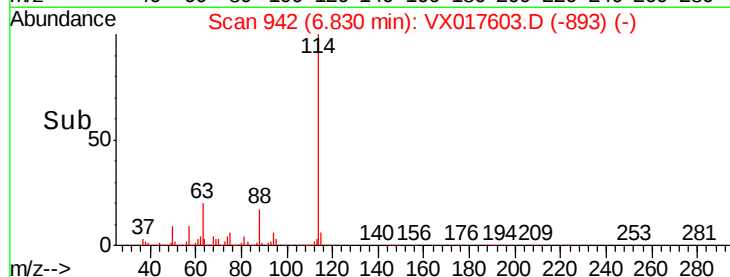
88 16.8 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 55.463 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

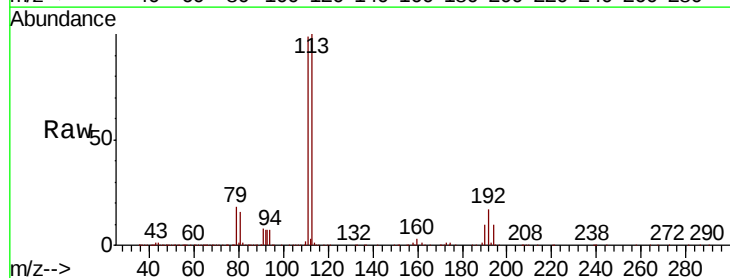
Tgt Ion:113 Resp: 248897

Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

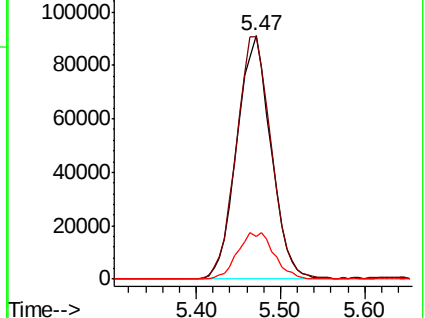
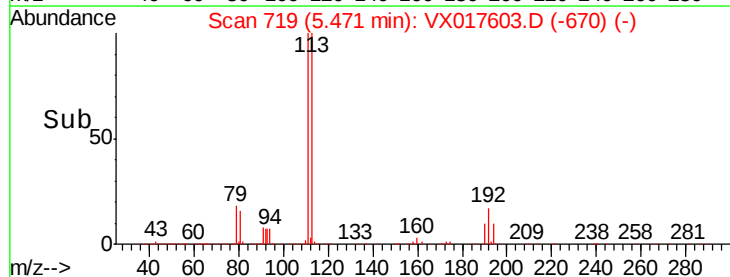
192 20.6 16.9 25.3

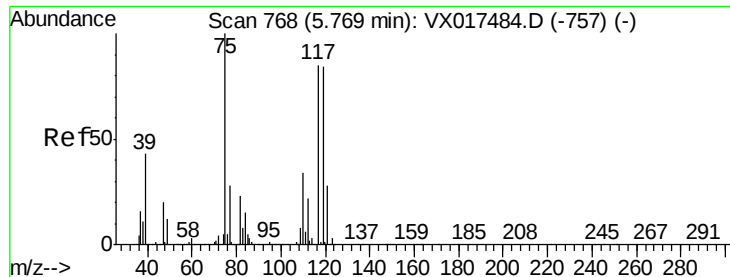


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.065 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

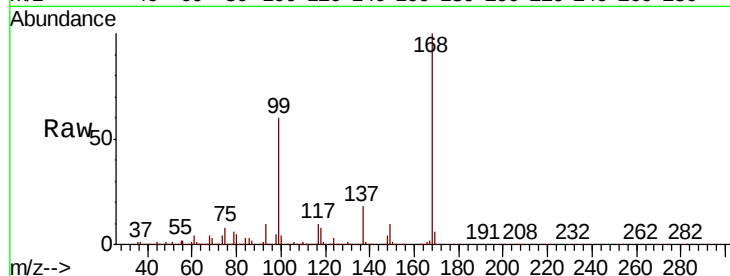
Tot Ion: 75 Resp: 32593

Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.3#

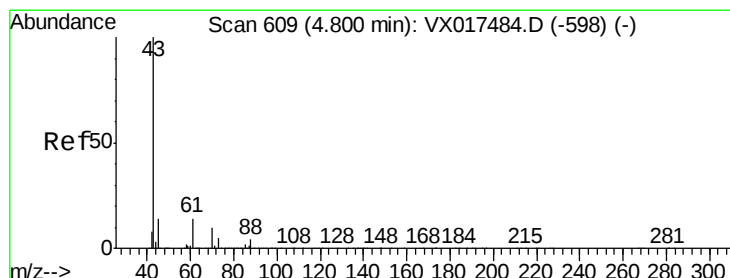
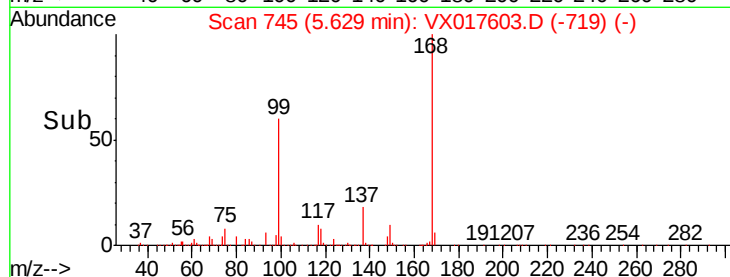
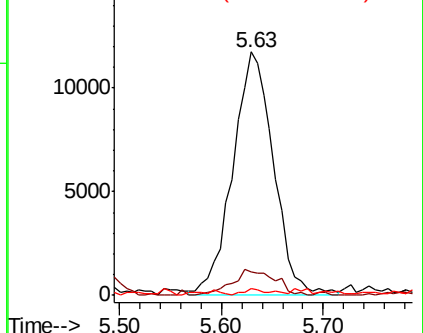
77 1.3 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.268 ug/l

RT: 4.81 min Scan# 611

Delta R.T. 0.01 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

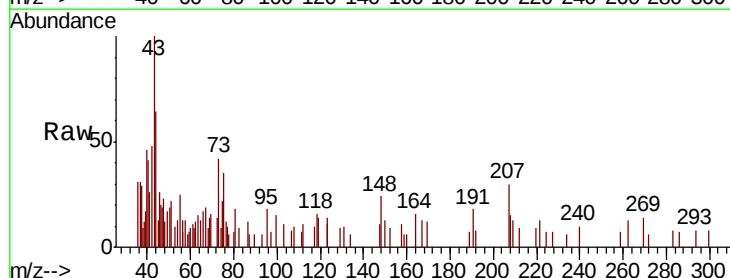
Tgt Ion: 43 Resp: 1885

Ion Ratio Lower Upper

43 100

61 20.9 10.7 16.1#

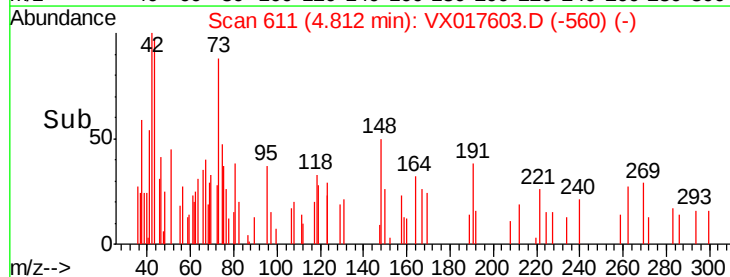
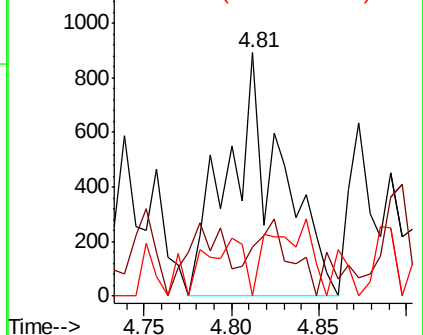
70 0.0 8.5 12.7#

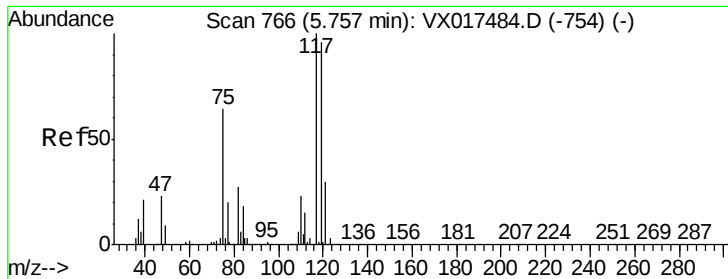


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.585 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

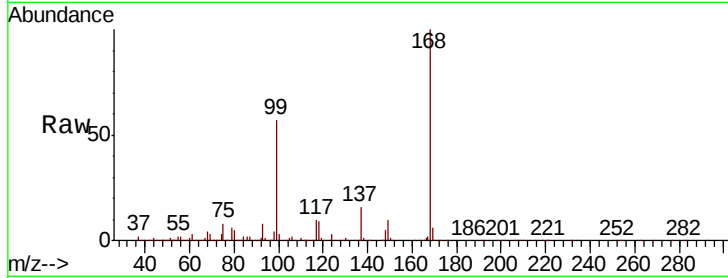
Tot Ion:117 Resp: 43648

Ion Ratio Lower Upper

117 100

119 5.3 75.4 113.0#

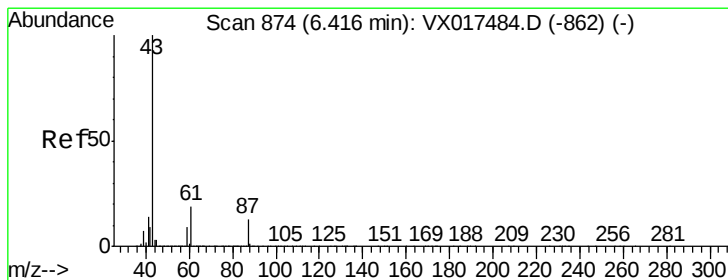
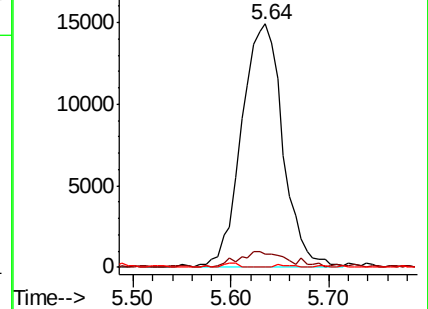
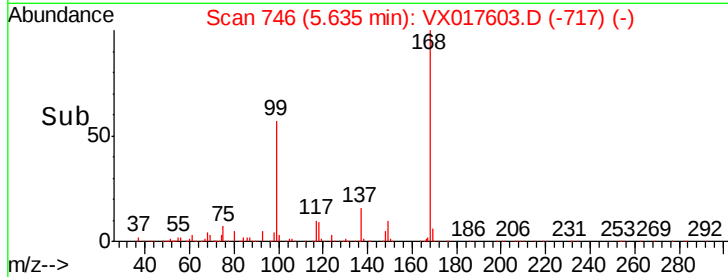
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.004 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

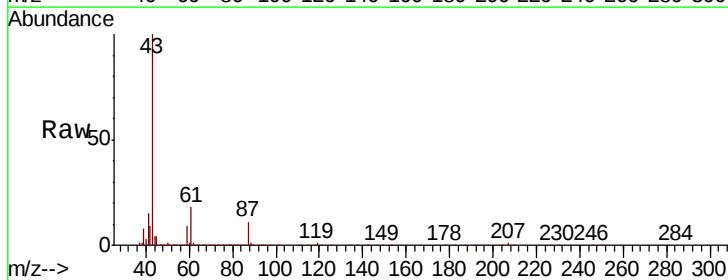
Tgt Ion: 43 Resp: 139456

Ion Ratio Lower Upper

43 100

61 19.0 15.5 23.3

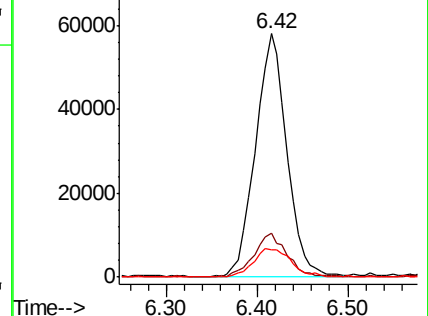
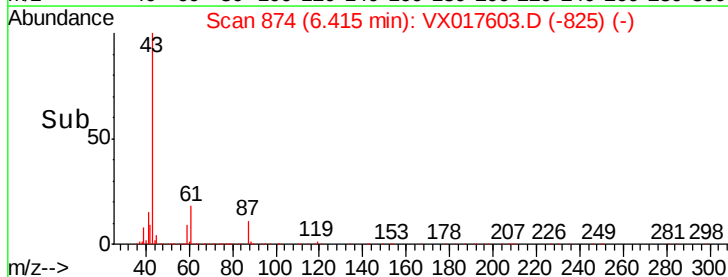
87 13.6 10.5 15.7

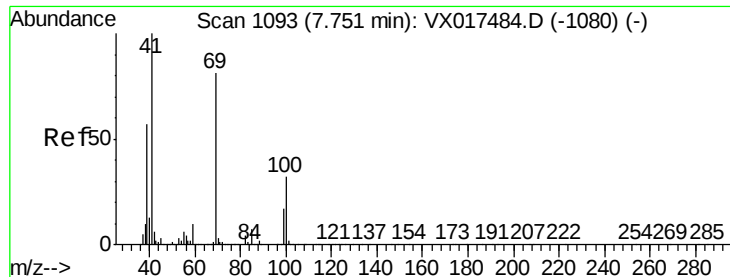


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

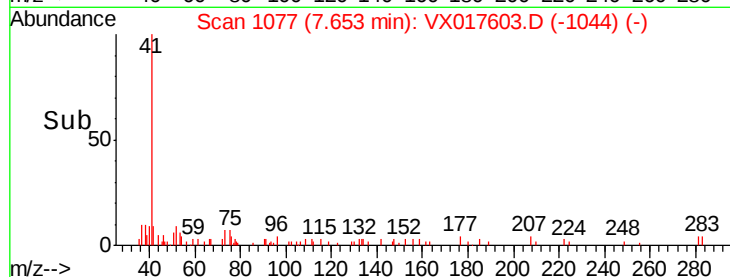
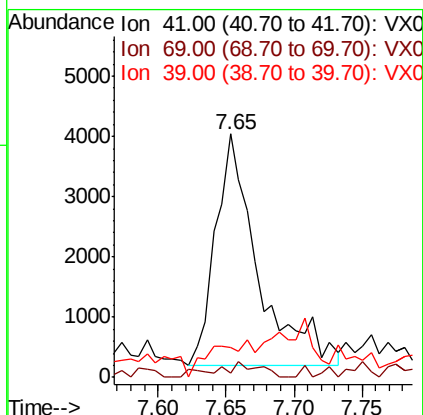
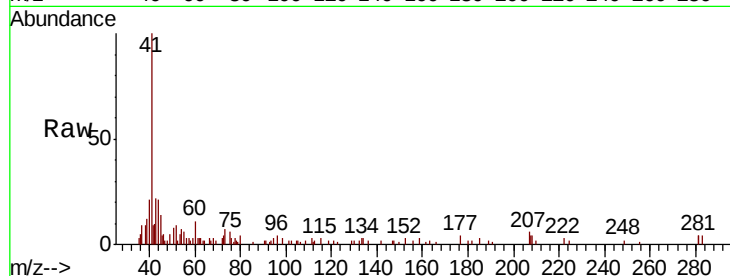




#48
Methyl methacrylate
Concen: 1.456 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.10 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

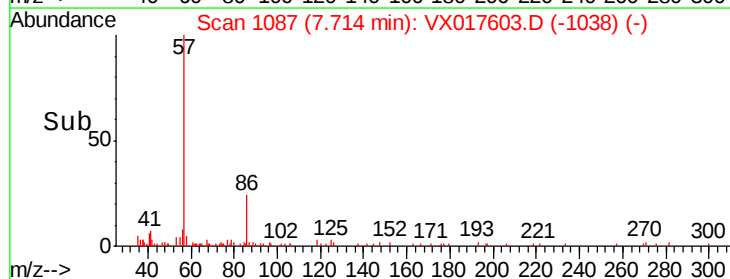
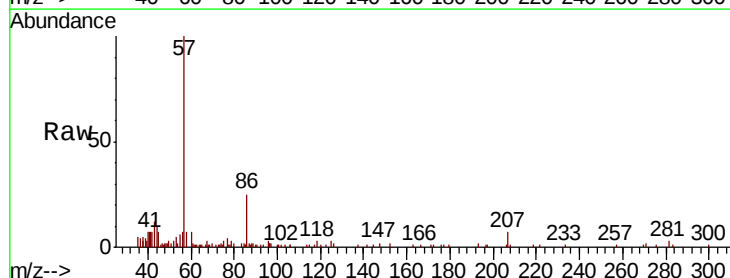
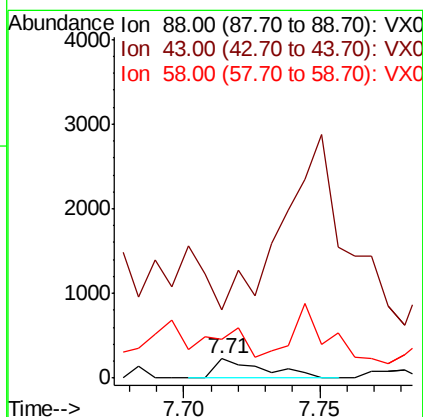
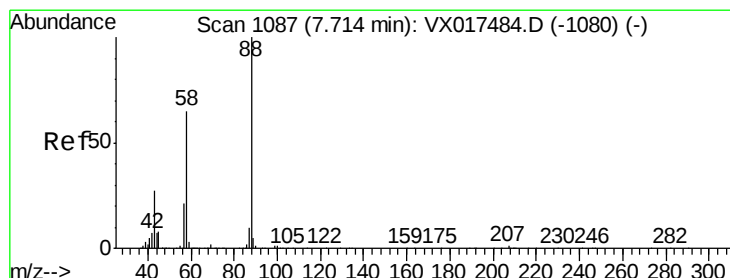
Instrument :
MSVOA_X
ClientSampled :

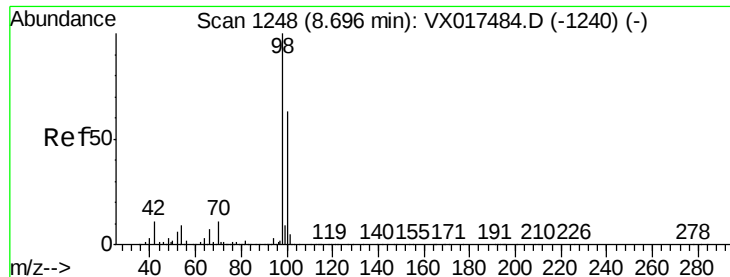
Tot Ion	Ratio	Lower	Upper
41	100		
69	4.8	63.1	94.7#
39	0.0	45.1	67.7#



#49
1,4-Dioxane
Concen: 2.545 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	58.3	87.5#





#50

Toluene-d8

Concen: 51.443 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

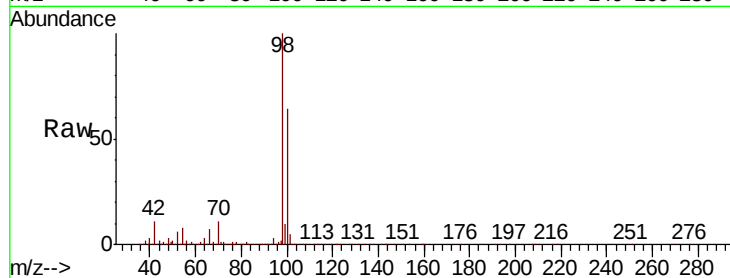
ClientSampleId :

Tot Ion: 98 Resp: 832810

Ion Ratio Lower Upper

98 100

100 64.9 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

600000

500000

400000

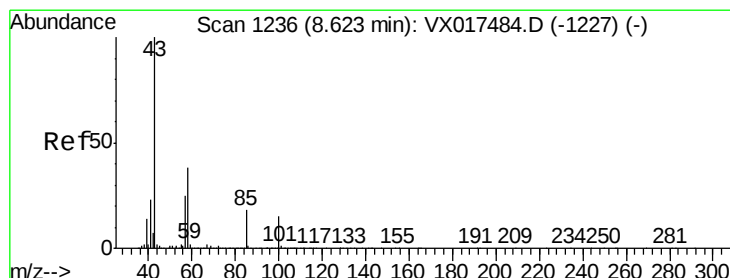
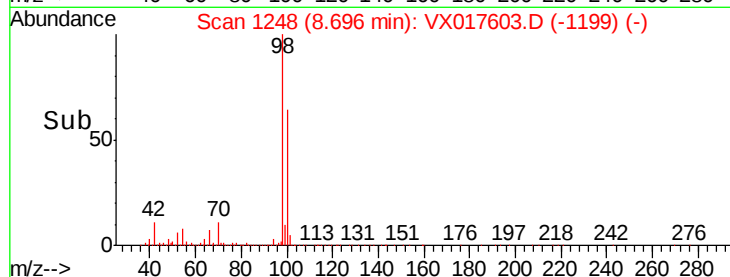
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 19.323 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017603.D

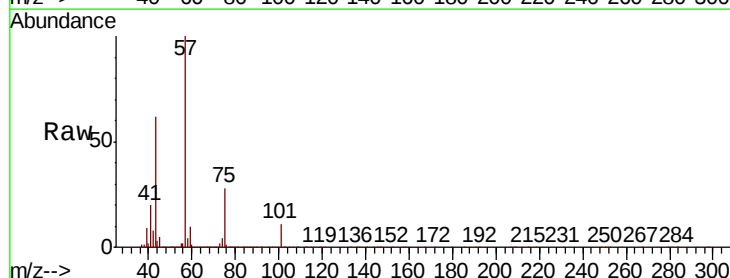
Acq: 25 Jul 2020 17:54

Tgt Ion: 43 Resp: 133945

Ion Ratio Lower Upper

43 100

58 6.2 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

80000

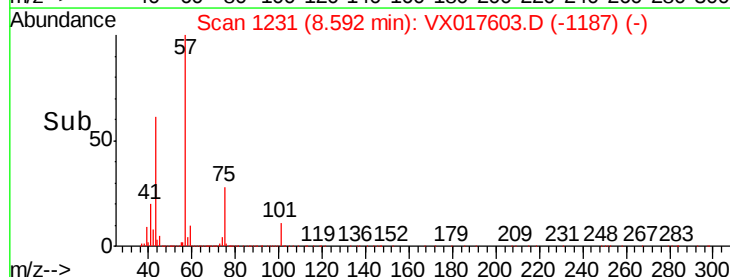
60000

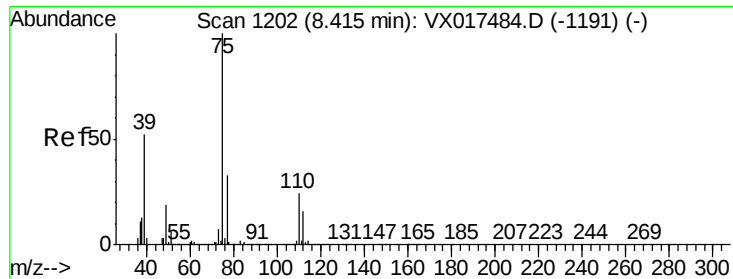
40000

20000

0

Time-->



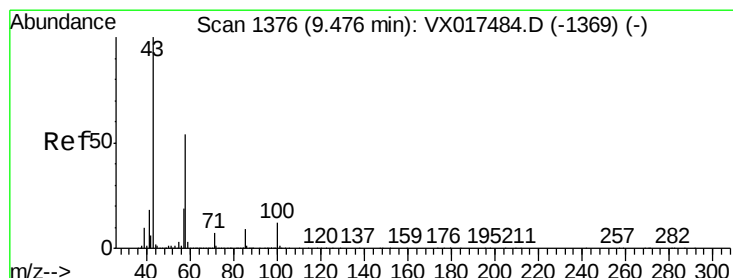
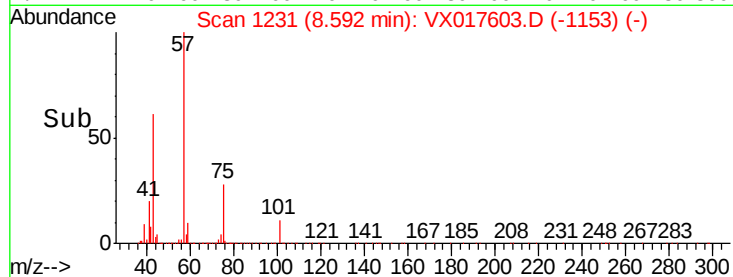
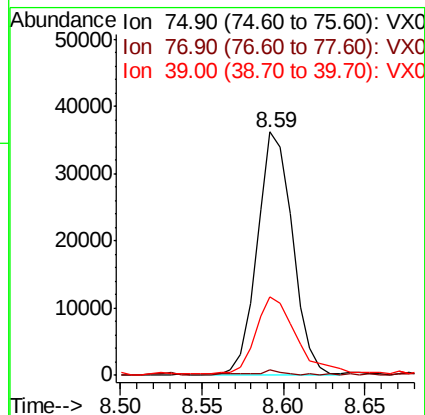
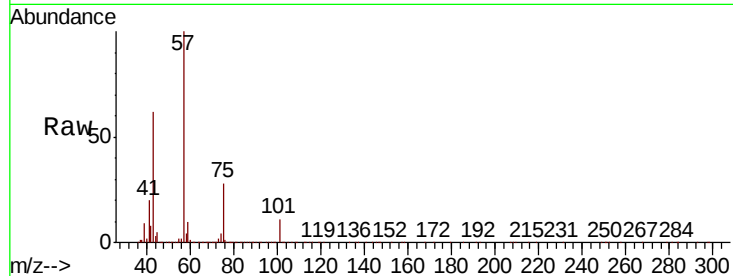


#54

cis-1,3-Dichloropropene
 Concen: 6.556 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017603.D
 Acq: 25 Jul 2020 17:54

Instrument :
 MSVOA_X
 ClientSampleId :

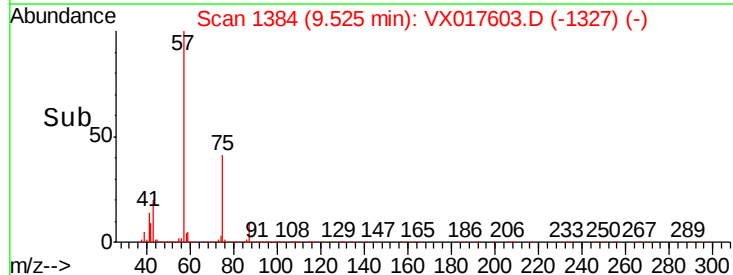
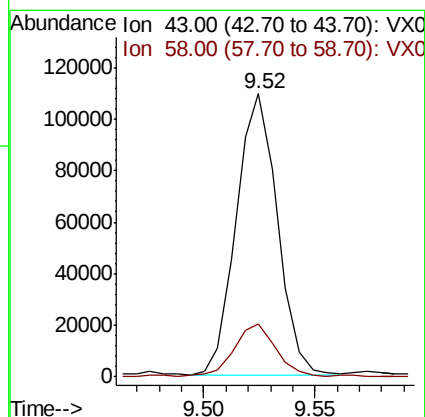
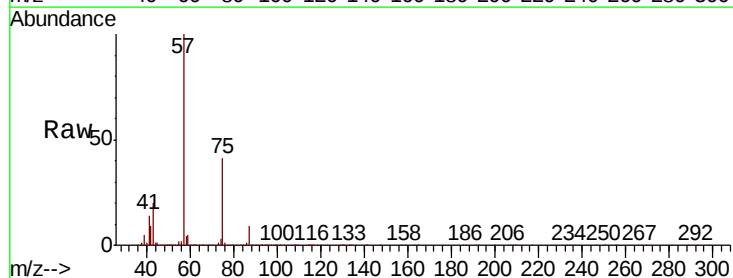
Tot Ion	Ratio	Lower	Upper
75	100		
77	1.8	25.5	38.3#
39	31.6	41.8	62.8#

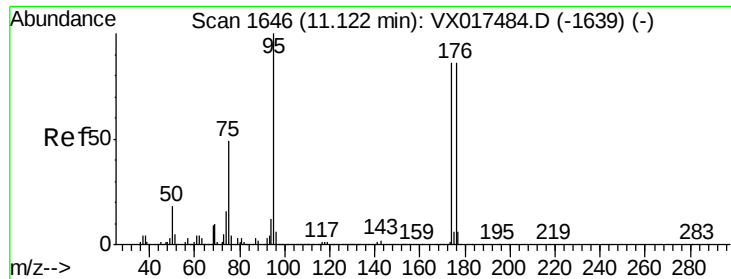


#59

2-Hexanone
 Concen: 26.935 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX017603.D
 Acq: 25 Jul 2020 17:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.0	26.6	79.8#

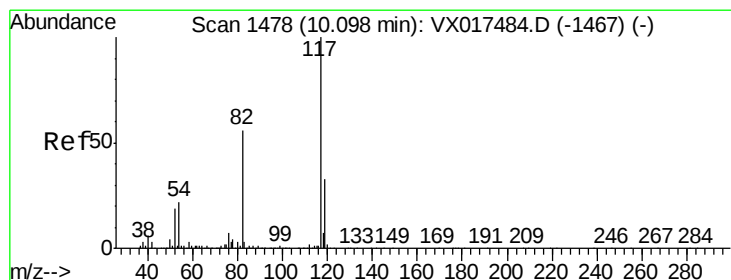
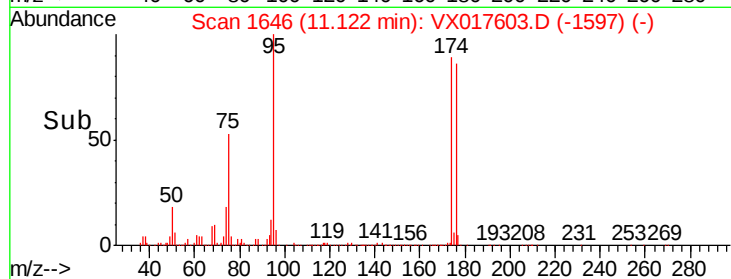
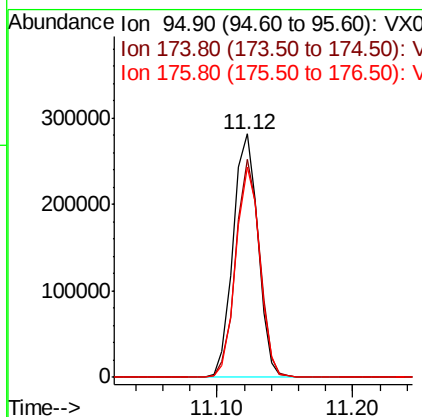
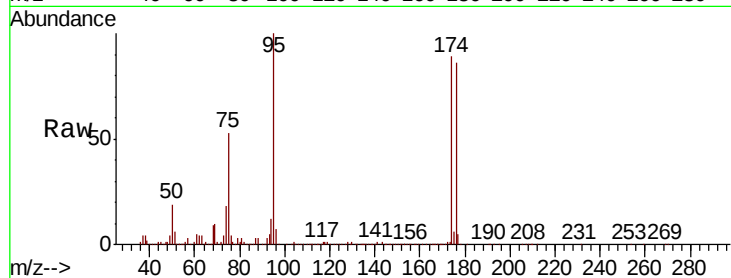




#62
4-Bromofluorobenzene
Concen: 55.382 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

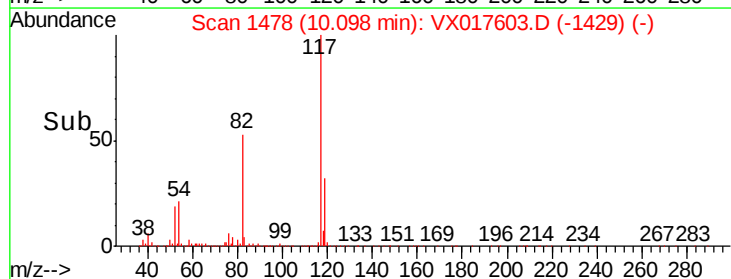
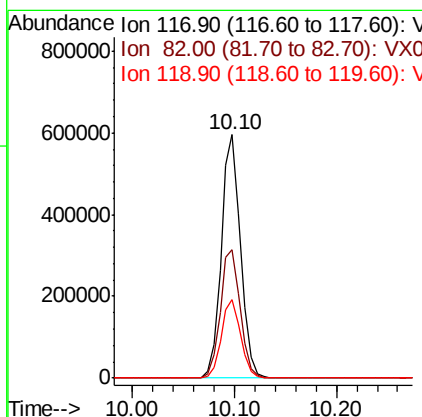
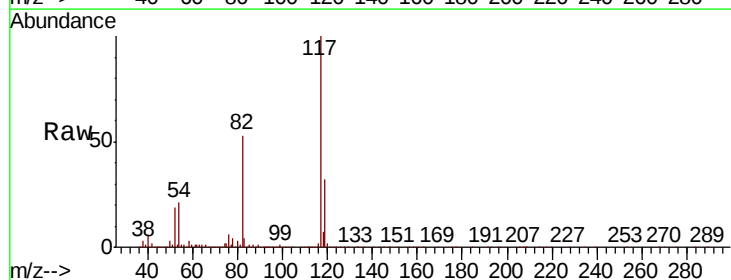
Instrument :
MSVOA_X
ClientSampleId :

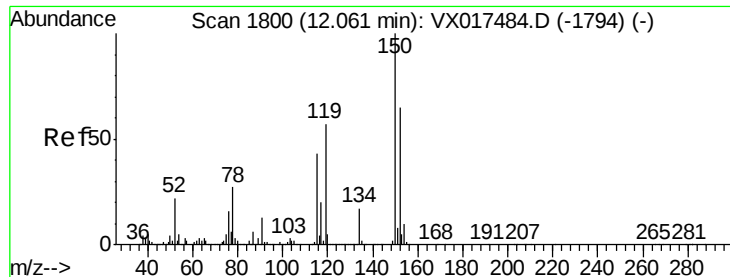
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	169.0
176	84.1	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017603.D
Acq: 25 Jul 2020 17:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	44.0	66.0
119	32.0	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

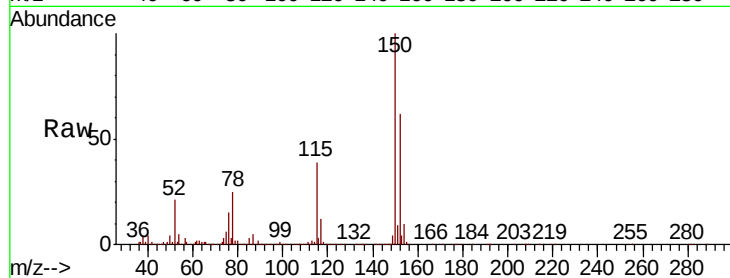
Tot Ion:152 Resp: 371620

Ion Ratio Lower Upper

152 100

115 59.6 65.5 196.6#

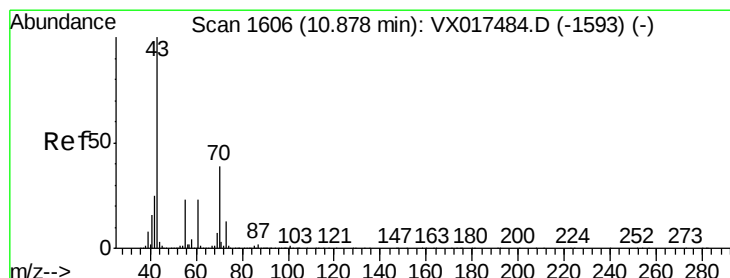
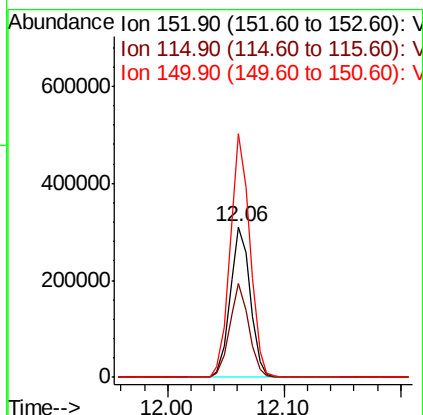
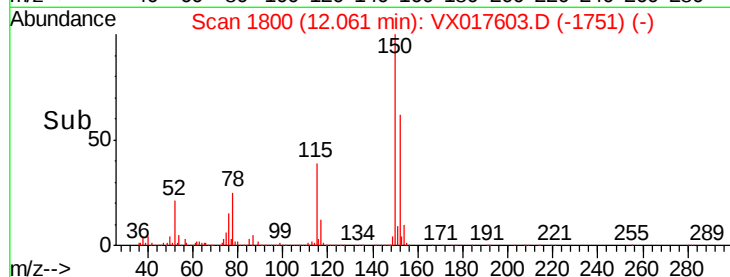
150 158.9 0.0 412.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.572 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Tgt Ion: 43 Resp: 6476

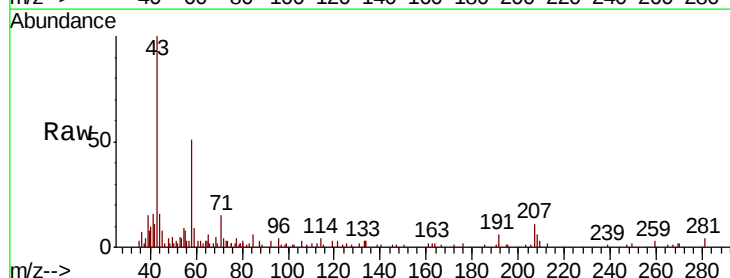
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 24.3 18.4 27.6

61 0.0 18.6 28.0#

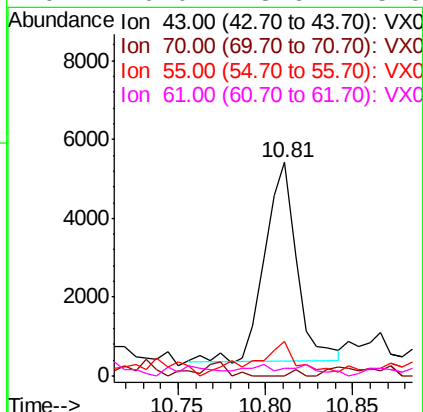
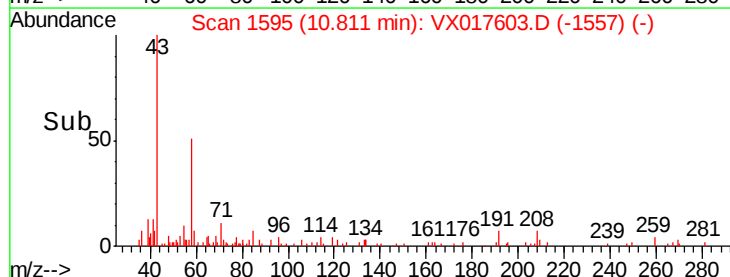


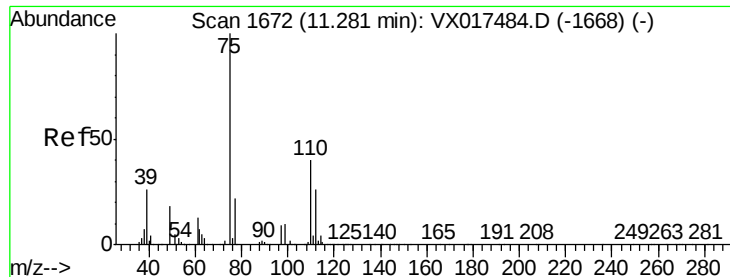
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.432 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

Instrument :

MSVOA_X

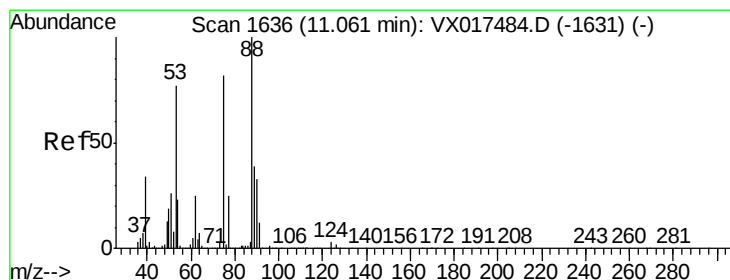
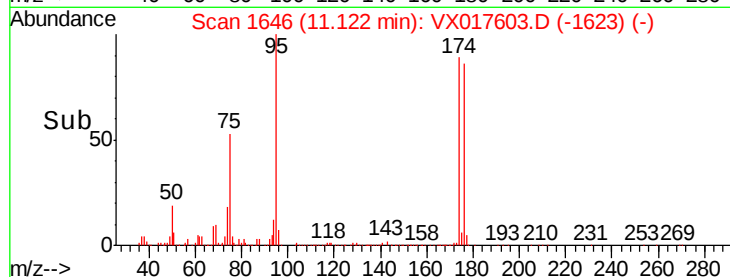
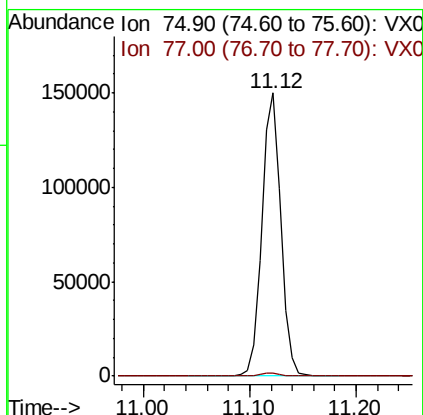
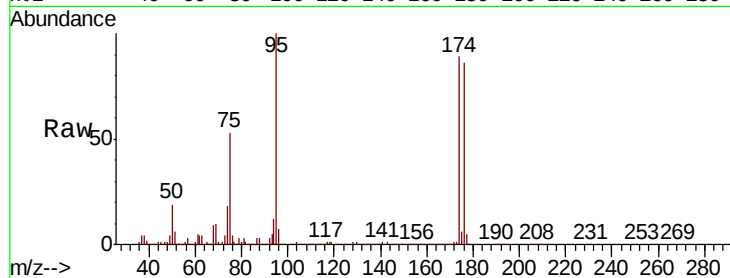
ClientSampleId :

Tot Ion: 75 Resp: 186768

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.563 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017603.D

Acq: 25 Jul 2020 17:54

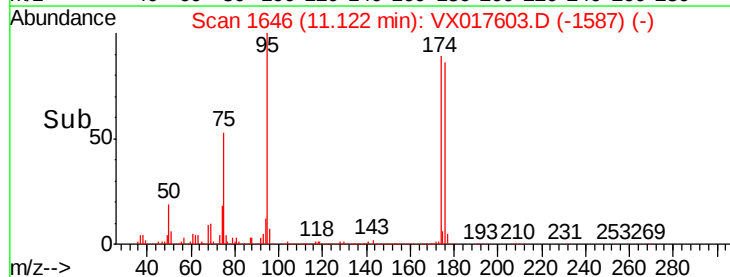
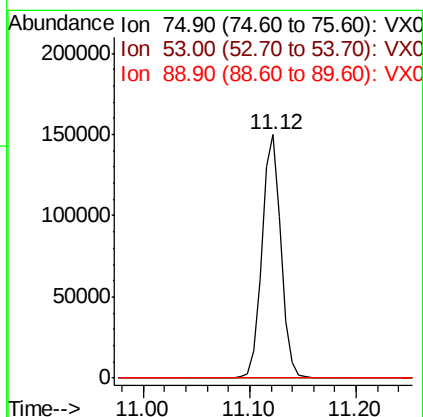
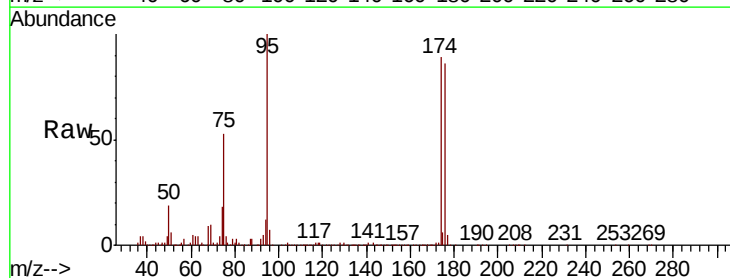
Tgt Ion: 75 Resp: 186768

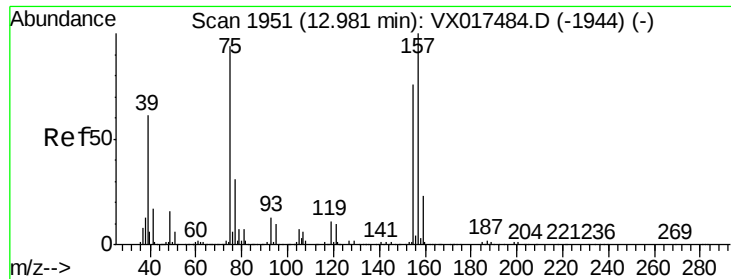
Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

89 0.0 37.8 56.6#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.597 ug/l
 RT: 12.97 min Scan# 1949
 Delta R.T. -0.01 min
 Lab File: VX017603.D
 Acq: 25 Jul 2020 17:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
155	135.4	42.3	126.8#
157	0.0	54.3	162.9#

